

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/41887

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C07D 271/06, 413/04, 413/14; A61K 31/4245, 31/427, 31/443, 31/506

US CL : 548/131; 546/269.4; 544/333; 514/256, 333, 340, 364

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 548/131; 546/269.4; 544/333; 514/256, 333, 340, 364

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CAS ONLINE STN Structure search

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| A | WO 96/04271 (HIMMELSBACH et al.) 15 February 1996 (15.02.1996), page 93, lines 4 - 5 (Claim 6, compound 4); page 57, lines 24 - 25 (number 4); page 59, lines 17 - 18 (number 20), and p. 62, lines 13 - 15 (number 54). | 6, 7, 10 |
| A | US 6,699,853 B2 (HARMSSEN et al.), 2 March 2004 (02.03.2004), published as US 2003/0162812 on 28 August 2003 (28.08.03); at col. 81, line 10 (compound 521); col. 63, line 29 (compound 156); col. 79, lines 4, 6, and 15 (compounds 495 497, and 506). | 6, 7, 10 |
| A,P | WO 2004/058149 A2 (DOHERTY et al.), 15 July 2004 (15.07.2004), at page 72, line 6 (Formula III) to page 73, line 7 and unnumbered compounds on page 73, line 16 - page 78, line 2; also page 78, line 10 to page 82, line 4 (methods of treating diseases with 1,2,4-oxadiazole derivatives). | 6, 7, 10 |
| A,P | US 2004/0058894 A1 (DOHERTY et al.) 25 March 2004 (25.03.2004), at page 9, line 5 (compound LIV); p. 22, line 7 (compound 141); p. 32, line 5 (compound XXVII); and p. 38, line 5 (compound LIV). | 6, 7, 10 |
| A | US 3,258,465 (JAUNIN and ZELLER) 28 June 1966 (28.06.1966) at col. 1, lines 14 - 71 (acid addition salts of hydrazine derivatives of formula I). | 6, 7, 10 |



Further documents are listed in the continuation of Box C.



See patent family annex.

| * Special categories of cited documents: | | |
|---|-----|--|
| "A" document defining the general state of the art which is not considered to be of particular relevance | "T" | later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention |
| "E" earlier application or patent published on or after the international filing date | "X" | document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "Y" | document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "O" document referring to an oral disclosure, use, exhibition or other means | | |
| "P" document published prior to the international filing date but later than the priority date claimed | "&" | document member of the same patent family |

Date of the actual completion of the international search

21 April 2005 (21.04.2005)

Date of mailing of the international search report

10 MAY 2005

Name and mailing address of the ISA/US

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INTERNATIONAL SEARCH REPORTInternational application No.
PCT/US04/41887**C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| A,P | WO 2004/103279 A2 (COLANDREA et al.), 2 December 2004 (02.12.2004), at page 5, lines 16 - 20 (Formula I); p. 71, line 8 (Example 14); p. 128, lines 5 - 6 (unlabeled compounds); p. 131, line 4 to p. 134, line 21 (methods of treating diseases with 1,2,4-oxadiazoles). | 6, 7, 10 |

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 1 - 5, 8, 9, 11 - 30
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
Please See Continuation Sheet
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

☐
☐

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

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Continuation of Box II Reason 2:

The numerous variables, e.g., Q, T, X, Y, Z, U, V, W, J, as well as R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13 and R14 and their voluminous, complex meanings and their virtual incomprehensible permutations and combinations make it impossible to determine the full scope and complete meaning of the claimed subject matter. As presented, the claimed subject matter cannot be regarded as being a clear and concise description for which protection is sought and as such the listed claims do not comply with the requirements of PCT Article 6. Thus it is impossible to carry out a meaningful search on these claims. A search will be carried out on the first discernable invention, which is claim 6, and on claims 7 and 10, which are also limited to compounds containing a 1,2,4-oxadiazole core.